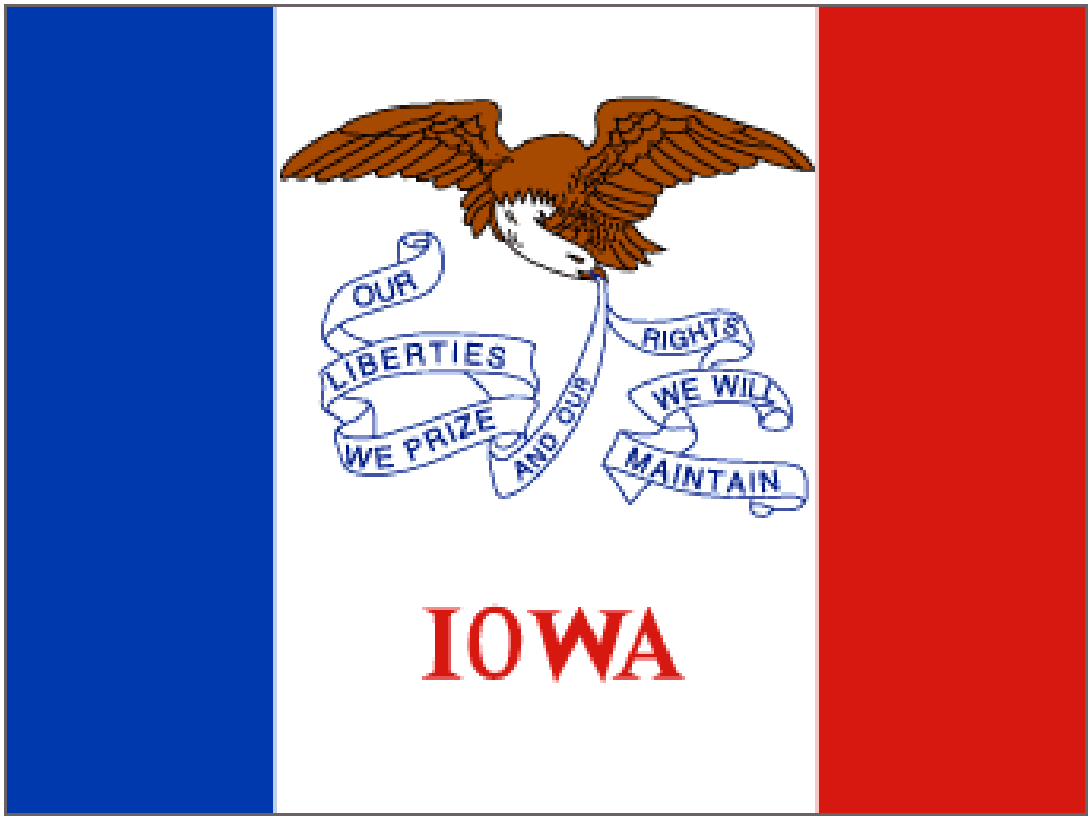
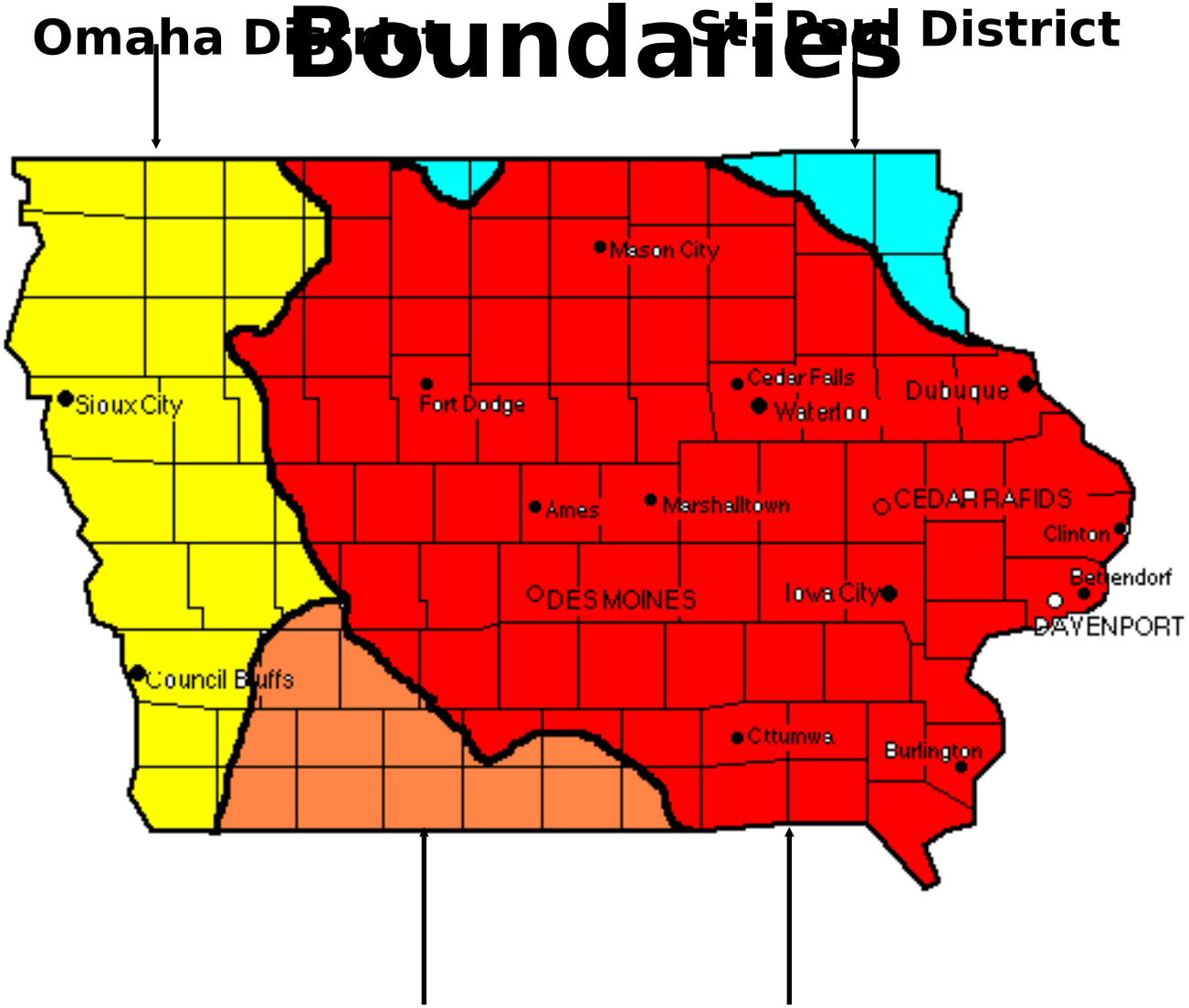
# Iowa State Partnering Meeting

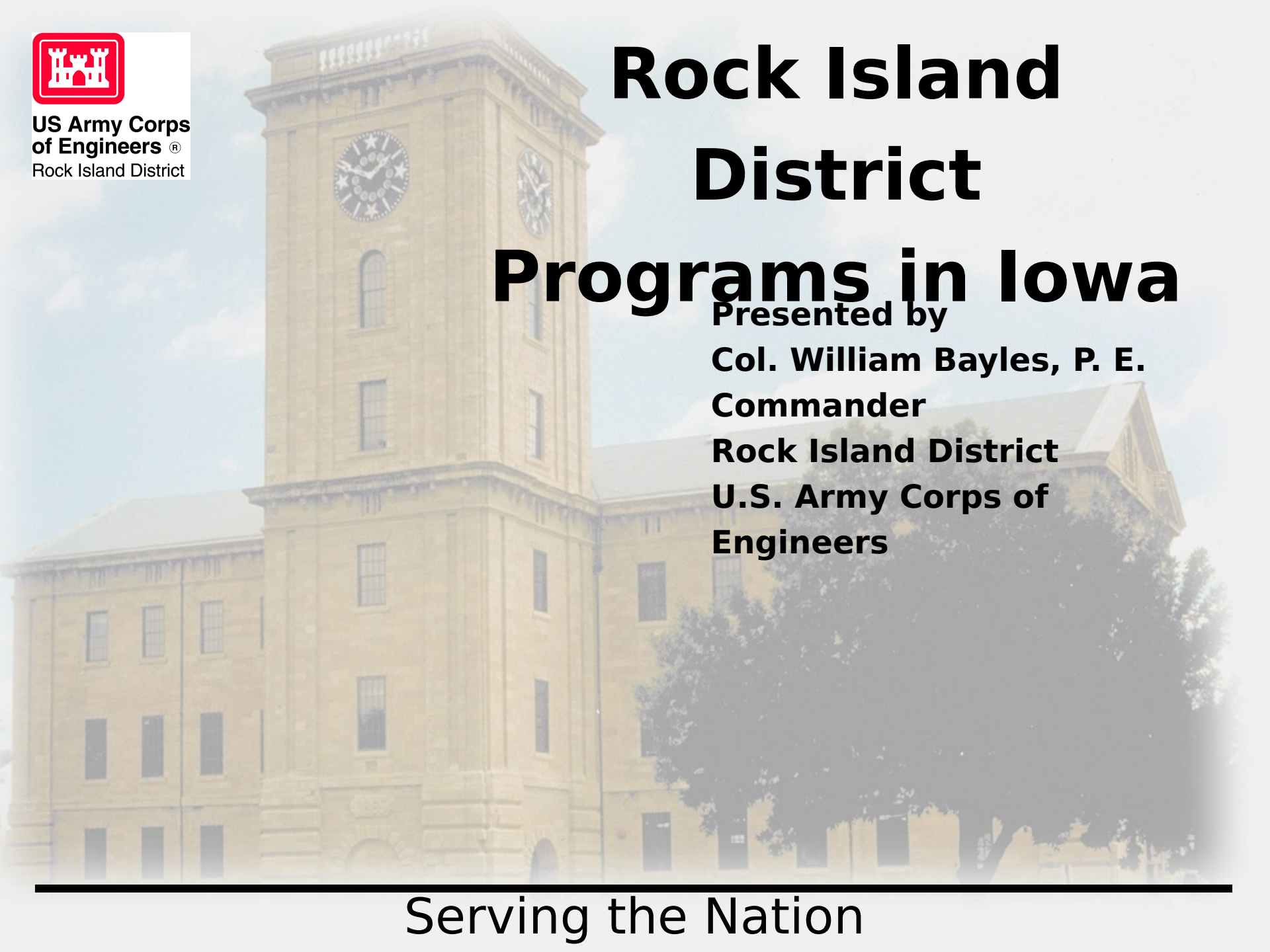


# U.S. Army Corps of Engineers Programs in Iowa

# Geographical Boundaries



# Today's Speakers



US Army Corps of Engineers ®
Rock Island District

# Rock Island District Programs in Iowa

**Presented by**
**Col. William Bayles, P. E.**
**Commander**
**Rock Island District**
**U.S. Army Corps of Engineers**

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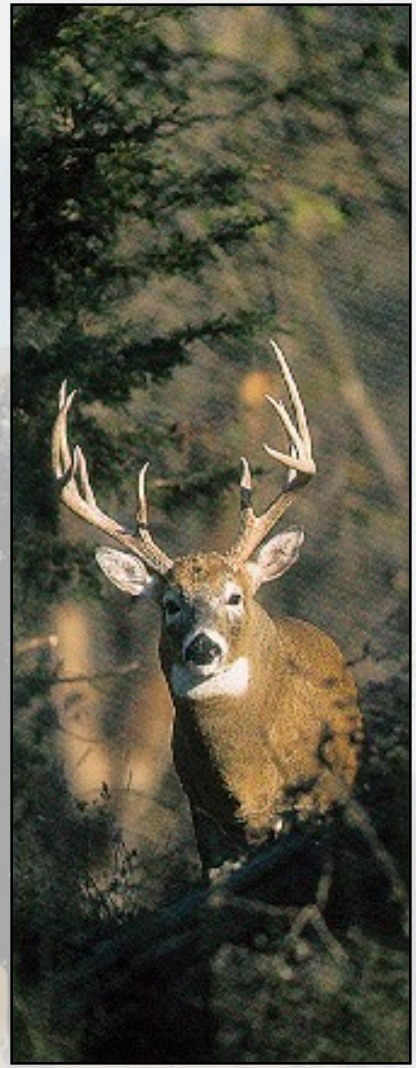
# Geographical Boundaries

US Army Corps of Engineers ®
Rock Island District

# General Investigations
# FY 2003 Major Milestones

- Navigation Study
  - Identification of Tentative Plans
- UMR Comprehensive Plan
  - Complete Evaluation of Existing Conditions
  - Formulate Alternatives
  - Initiate Alternative Analysis
- Fort Dodge
  - Initiate Feasibility Phase
- Flow Frequency Study
  - Conduct Public Workshops
  - Complete Study Report



US Army Corps of Engineers ®
Rock Island District

# Construction, General
# FY 2003 Major Milestones

- **Environmental Management Program**
  - **Award Pool 11 Islands, Stage II (Mud Lake)**
  - **Award Gardner Division Stage II**
  - **Report to Congress**
- **Lock & Dam 11**
  - **Complete Stage 1 Scour Protection**
- **Lock & Dam 12**
  - **Complete Construction**
- **East Peoria, Section 205**
  - **Complete Real Estate Acquisition**
- **Rock River Highway 64, Section 14**
  - **Execute PCA**

# Operations & Maintenance

US Army Corps of Engineers ®
Rock Island District

## FY 2003 Major Milestones

- **Award**
  - **Award Lock & Dam 15 Check Post Replacement**
  - **Southeast Des Moines Levee Repairs**
- **Award & Complete**
  - **Award & Complete Locks & Dams 17 & 21 Spillway Repairs**
  - **Award & Complete Lock & Dam 21 Approach Dike Repairs**
- **Complete**
  - **Complete Concrete Repairs at Locks & Dams 20, 21, 22**

US Army Corps of Engineers ®
Rock Island District

# Total Budget FY2004 ($000)

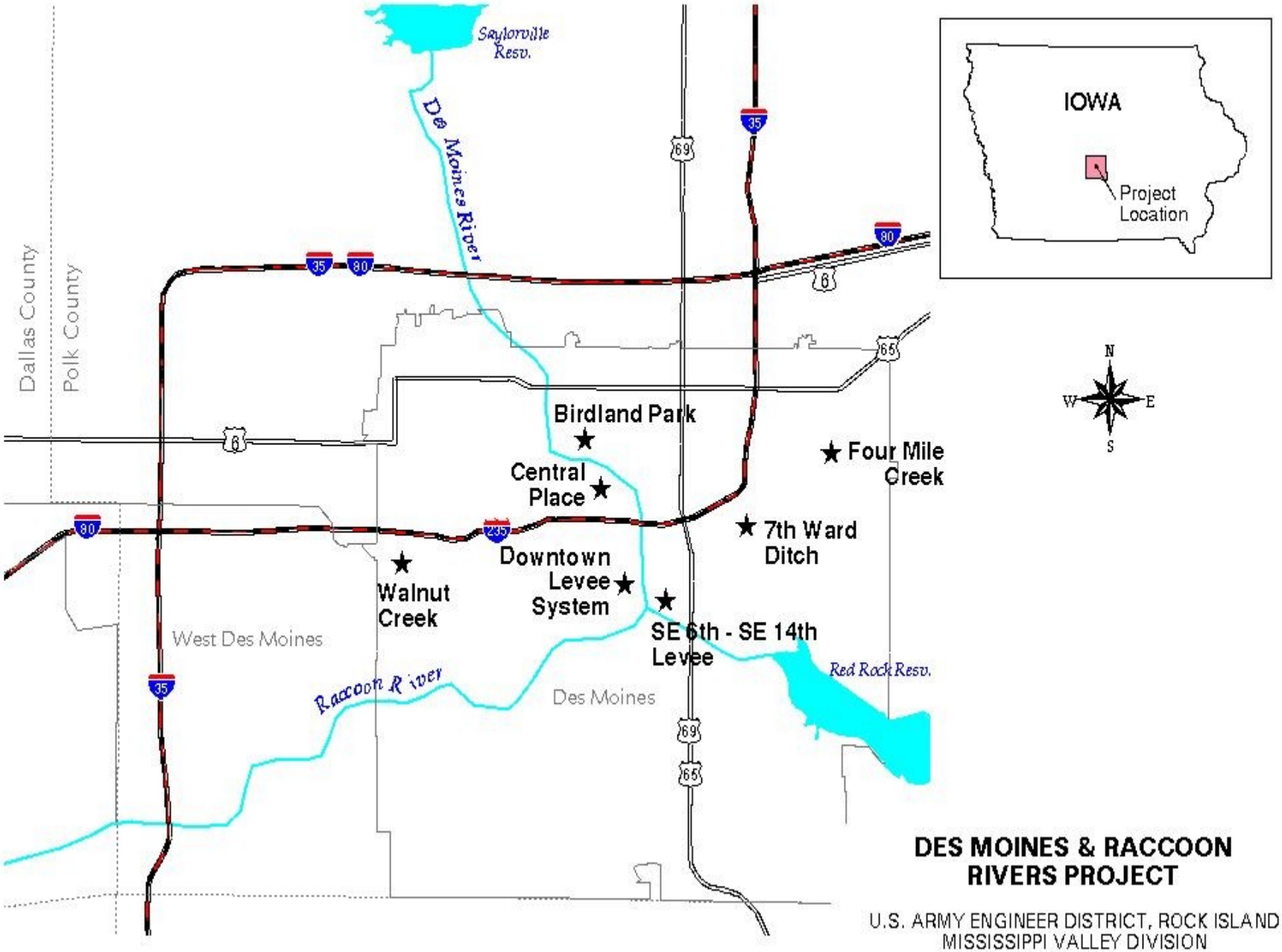
| | |
|---|---|
| General Investigations* | $ 7,479 |
| Construction, General** | 51,317 |
| Operations & Maintenance | 81,291 |
| Total | $140,087 |

*Includes Miscellaneous GI Items
**Includes Inland Waterways Trust Fund, Total EMP (3 Districts), and CAP (According to Database)

US Army Corps of Engineers ®
Rock Island District

# General Investigations in Iowa FY 2004 ($000)

| | |
|---|---|
| • Des Moines & Raccoon Rivers | $ 565 |
| • Fort Dodge, IA | 23 |
| • UMR Comprehensive Plan | 494 |
| • UMR & IL Navigation Study (Feasibility) | 3,216 |
| • Davenport, IA | 159 |
| • Miscellaneous | 1,672 |
| TOTAL | $ 6,129 |



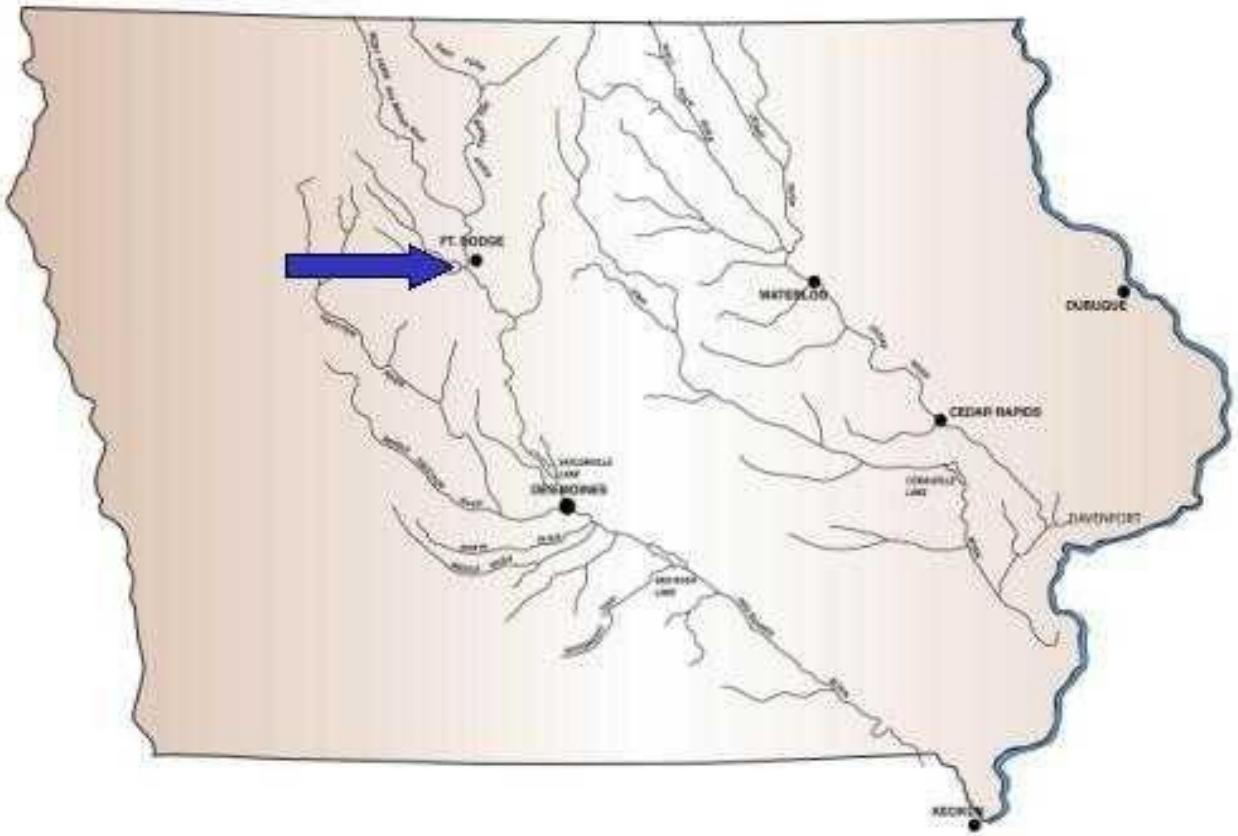

# DES MOINES & RACCOON RIVERS PROJECT

U.S. ARMY ENGINEER DISTRICT, ROCK ISLAND
MISSISSIPPI VALLEY DIVISION

US Army Corps of Engineers ®
Rock Island District

# Des Moines & Raccoon Rivers, IA

- **Problem: Lack of Flood Protection & Resulting Adverse Impacts to Critical Facilities**
- **Project: Address Flood Damage Reduction**
- **FY04 Work: Complete evaluation of alternatives, select recommended Plan, & prepare the Draft Feasibility Report with Environmental Assessment**
- **FY04 Budget Request: $565,000**
- **Total Estimated Cost: $3,360,000 ($1,730,000 Fed)**
- **Completion Date: September 2004**




Fort Dodge, Iowa

U.S. Army Engineer District, Rock Island

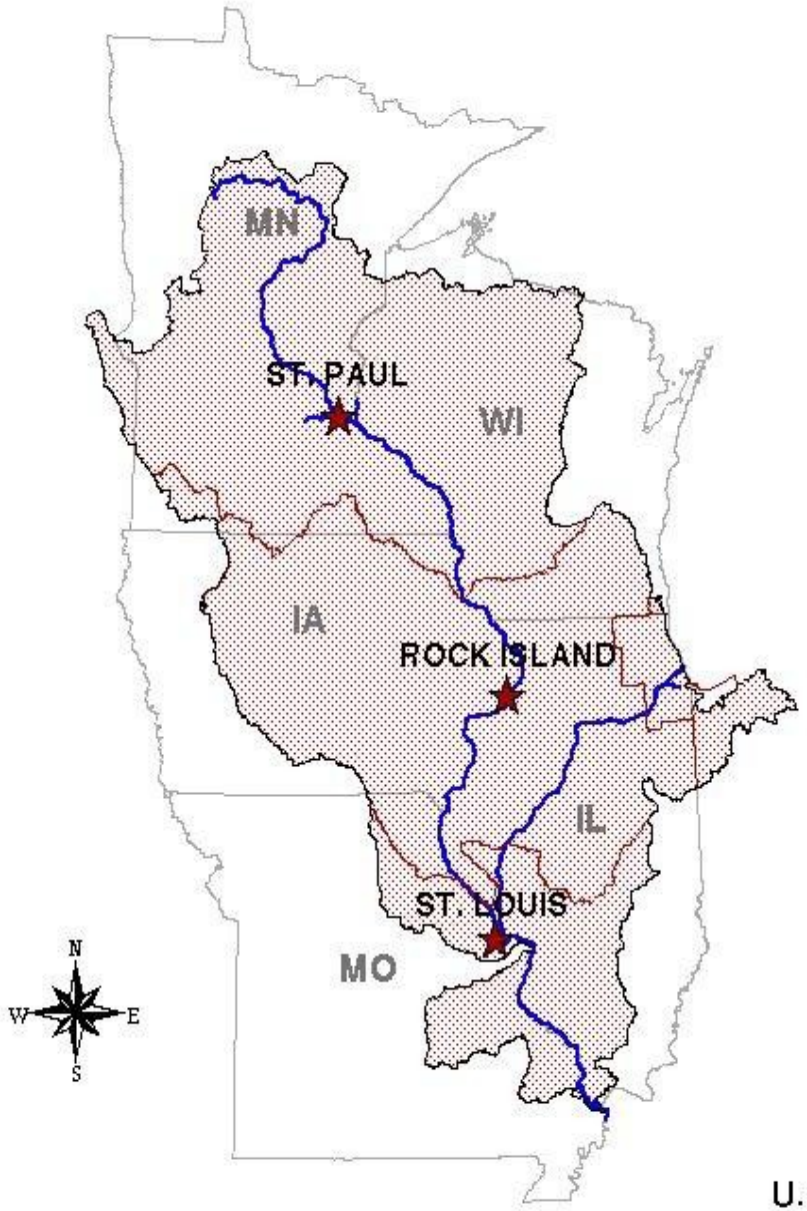
Mississippi Valley Division

US Army Corps of Engineers ®
Rock Island District

# Fort Dodge, IA

- **Problem: Need for Ecosystem Restoration & Fish Passage at Dams**
- **Project: Modification of Dams to Allow Fish Passage & Associated Recreational Features**

- **FY04 Work: Continue the Feasibility Phase**
- **Budget Request for FY04: $23,000**
- **Total Estimated Cost: $590,000 ($345,000 Fed)**
- **Completion Date: September 2006**




**UPPER MISSISSIPPI RIVER**
**COMPREHENSIVE PLAN**

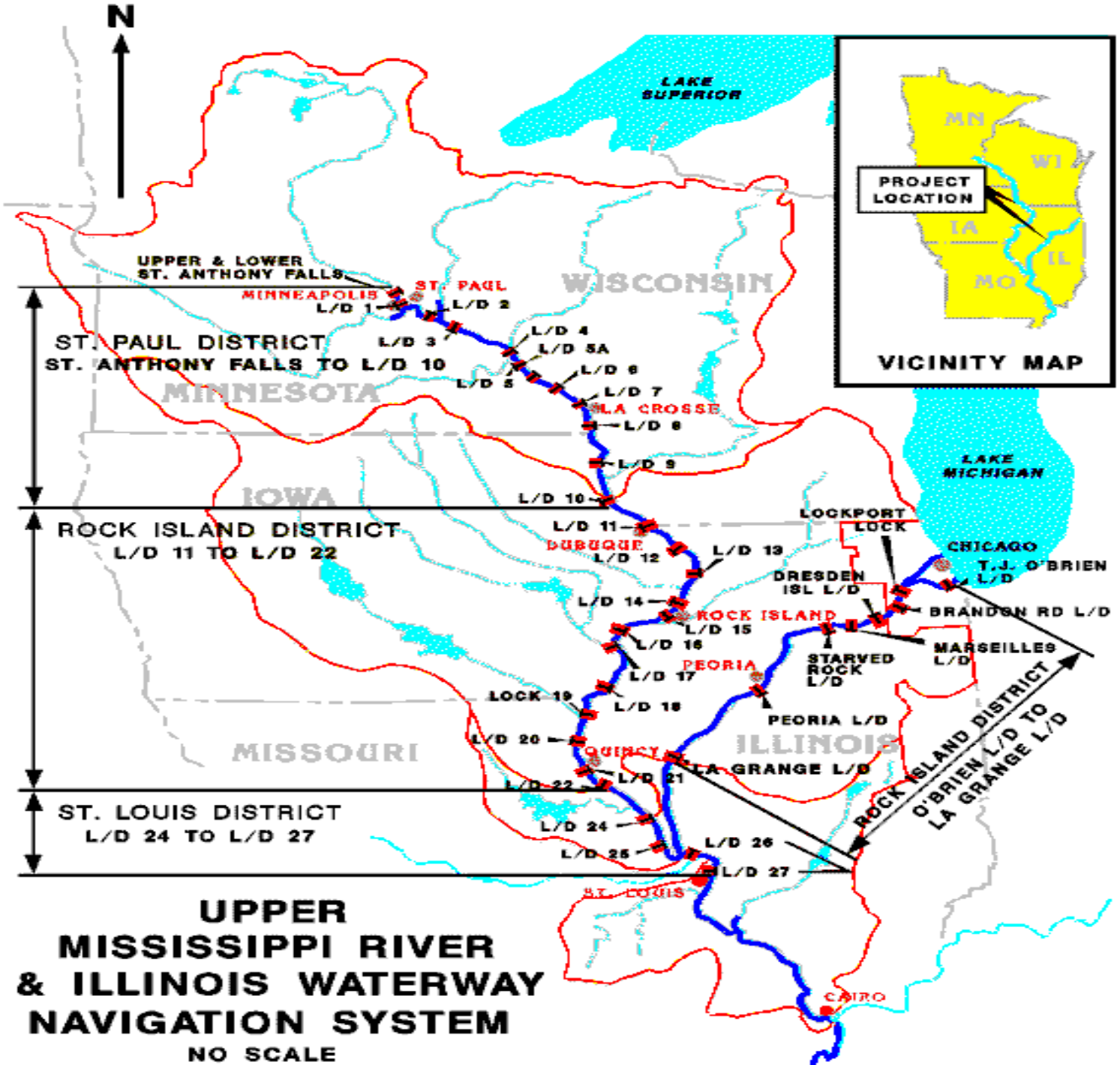
U.S. ARMY ENGINEER DISTRICT, ROCK ISLAND
MISSISSIPPI VALLEY DIVISION

US Army Corps of Engineers ®
Rock Island District

# Comprehensive Plan

- **Problem: Region Lacks a Systemic Plan for Flood Damage Reduction**
- **Project: Plan Formulation & Alternative Evaluation**

- **FY04 Work: Complete Alternatives Analysis Evaluation**
- **Budget Request for FY04: $494,000**
- **Total Estimated Cost: $5.1 M**
- **Completion Date: December 2004**



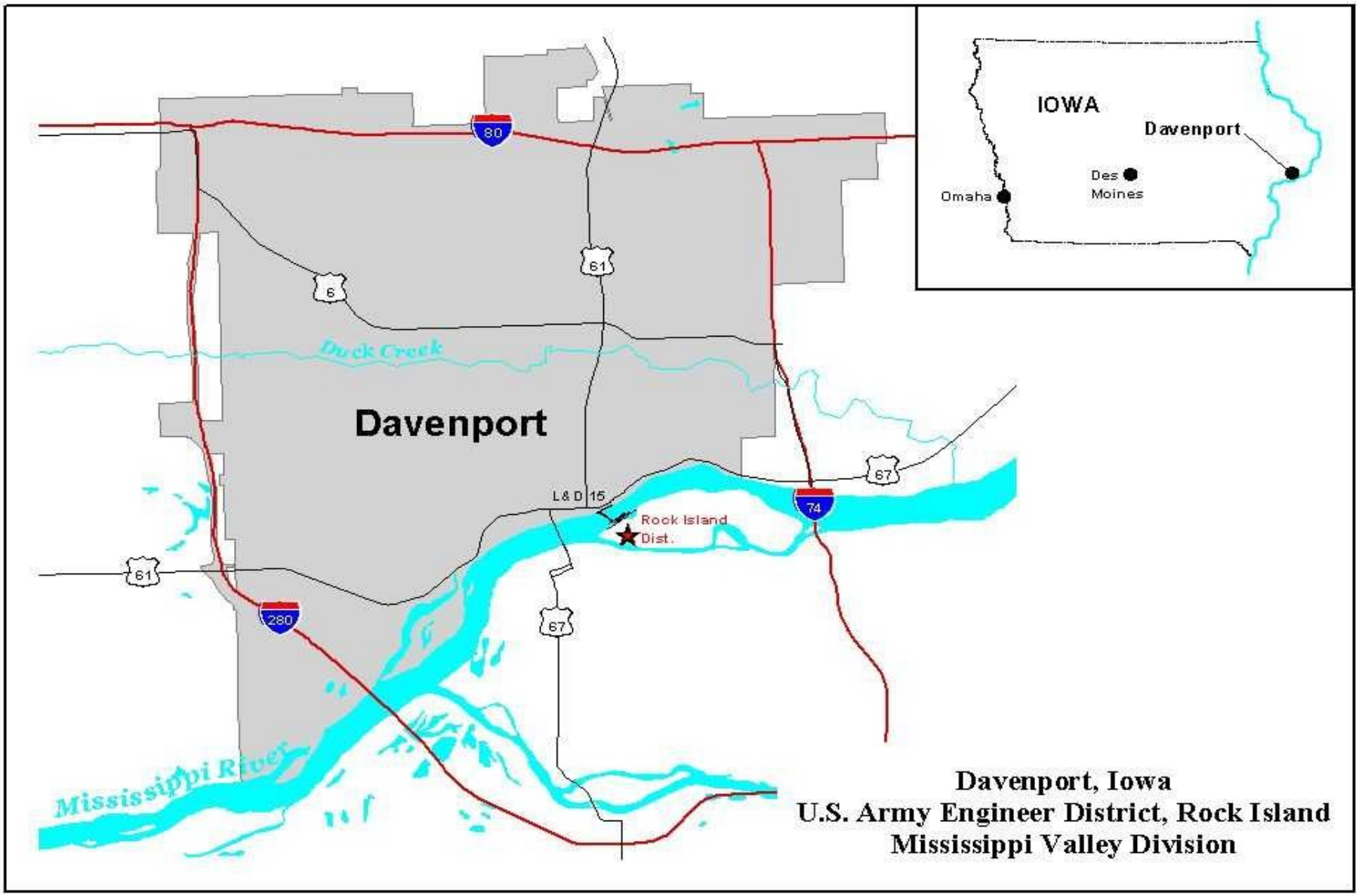

# UPPER MISSISSIPPI RIVER & ILLINOIS WATERWAY NAVIGATION SYSTEM

NO SCALE

US Army Corps of Engineers ®
Rock Island District

# Navigation Study

- **Problem: Navigation Infrastructure & River Ecosystem**
- **Project: Studying the Needs & Opportunities for Navigation Improvements & Ecosystem Restoration**
- **Next Work: Release DRAFT Feasibility Study Report for Public Review. Completion of Independent Technical Review & National Research Council Review. Division Commanders Notice Expected in September and Chief's Report in November.**
- **Budget Request for FY04: $3,216,000**
- **Total Estimated Cost: $72,564,000**
- **Completion Date: September 2004**


IOWA
Davenport
Des Moines
Omaha
80
61
6
Duck Creek
Davenport
67
L&D 15
Rock Island Dist.
74
61
280
67
Mississippi River
Davenport, Iowa
U.S. Army Engineer District, Rock Island
Mississippi Valley Division

US Army Corps of Engineers ®
Rock Island District

# Davenport, IA

- PED Resumption in September 2001
- Problem: Lack of Flood Protection for Downtown Area & Water Treatment Plant

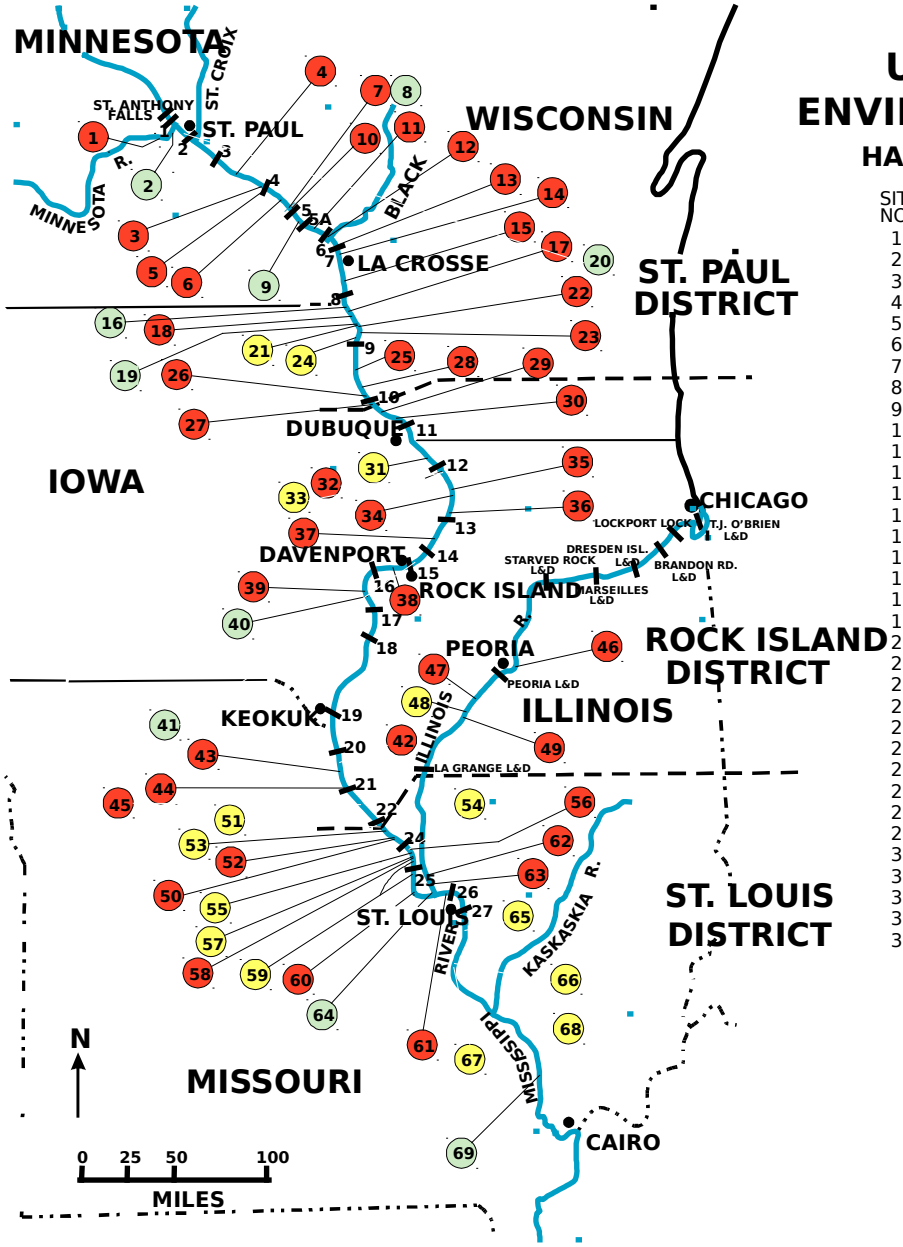
- FY04 Work: Complete Approval Document for PCA
- Total Estimated Cost: $580,000 ( $435,000 Fed)
- Completion Date: September 2004

US Army Corps of Engineers ®
Rock Island District

# Construction, General in Iowa
# FY 2004
# ($000)

- **EMP (3 District Total) $33,320**
- **L&D 11 (MR) * 1,313**

| | |
|---|---|
| **Subtotal** | **$34,633** |
| • **Continuing Authorities **** | **10,899** |
| **TOTAL** | **$45,532** |




# UPPER MISSISSIPPI RIVER SYSTEM ENVIRONMENTAL MANAGEMENT PROGRAM

## HABITAT REHABILITATION AND ENHANCEMENT PROJECTS

| SITE NO. | PROJECT |
|---|---|
| 1. | RICE LAKE, MN |
| 2. | LONG MEADOW LAKE, MN |
| 3. | PETERSON LAKE, MN |
| 4. | INDIAN SLOUGH, WI |
| 5. | FINGER LAKES, MN |
| 6. | ISLAND 42, MN |
| 7. | SPRING LAKE PENINSULA, WI |
| 8. | SPRING LAKE ISLANDS, WI |
| 9. | POLANDER LAKE, MN |
| 10. | SMALL SCALE DRAWDOWN, WI |
| 11. | TREMPEALEAU REFUGE, WI |
| 12. | LONG LAKE, WI |
| 13. | LAKE ONALASKA, WI |
| 14. | EAST CHANNEL, WI/MN |
| 15. | POOL 8 ISLANDS, WI |
| 16. | POOL SLOUGH, IA/MN |
| 17. | BLACKHAWK PARK, WI |
| 18. | LANSING BIG LAKE, IA |
| 19. | CONWAY LAKE, IA |
| 20. | LAKE WINNESHIEK, WI |
| 21. | CAPOLI SLOUGH, WI |
| 22. | POOL 9 ISLAND, WI |
| 23. | COLD SPRINGS, WI |
| 24. | HARPERS SLOUGH, IA/WI |
| 25. | AMBROUGH SLOUGH, WI |
| 26. | BUSSEY LAKE, IA |
| 27. | GUTTENBERG PONDS, IA |
| 28. | MISS RIVER BANK STABILIZATION, IA/MN/WI |
| 29. | BERTOM-McCARTNEY LAKES, WI |
| 30. | POOL 11 ISLANDS, IA/WI |
| 31. | POOL 12 OVERWINTERING, IA-IL |
| 32. | PLEASANT CREEK, IA |
| 33. | SMITH CREEK, IA |
| 34. | BROWN'S LAKE, IA |

| SITE NO. | PROJECT |
|---|---|
| 35. | SPRING LAKE, IL |
| 36. | POTTERS MARSH, IL |
| 37. | PRINCETON REFUGE, IA |
| 38. | ANDALUSIA REFUGE, IL |
| 39. | BIG TIMBER, IA |
| 40. | LAKE ODESSA, IA |
| 41. | FOX ISLAND, MO |
| 42. | GARDNER DIVISION, IL |
| 43. | COTTONWOOD ISLAND, MO |
| 44. | MONKEY CHUTE, MO |
| 45. | BAY ISLAND, MO |
| 46. | PEORIA LAKE, IL |
| 47. | BANNER MARSH, IL |
| 48. | RICE LAKE, IL |
| 49. | CHAUTAUQUA REFUGE, IL |
| 50. | CLARKSVILLE REFUGE, MO |
| 51. | TED SHANKS, MO |
| 52. | PHARRS ISLAND, MO |
| 53. | ANGLE BLACKBURN, MO |
| 54. | REDS LANDING, IL |
| 55. | NORTON WOODS, MO |
| 56. | STAG & KEETON ISLANDS, MO |
| 57. | SANDY CHUTE, IL |
| 58. | BATCHTOWN MGMT. AREA, IL |
| 59. | POOLS 25 & 26, MO |
| 60. | CUIVRE ISLAND, MO |
| 61. | DRESSER ISLAND, MO |
| 62. | STUMP LAKE, IL |
| 63. | SWAN LAKE, IL |
| 64. | CALHOUN POINT, IL |
| 65. | JEFFERSON BARRACKS, IL |
| 66. | FT. CHARTRES SC, IL |
| 67. | ESTABLISHMENT CHUTE SC, MO |
| 68. | STONE DIKE ALTERATIONS, MO/IL |
| 69. | SCHENIMANN CHUTE, MO |

**STATUS AS OF: MARCH 2003**

- **UNDER CONSTRUCTION OR CONSTRUCTED**
- **GENERAL DESIGN INITIATED**
- **PLANNING PROCESS**
- **LOCK & DAM SITES**

US Army Corps of Engineers ®
Rock Island District

# Environmental Management Program (EMP)

- **Problem: Backwater Sedimentation**
- **Project: A Well-Balanced Combination of Monitoring, Research, & Habitat Restoration Activities**

- **FY04 Work: Planning & Design for 18 Sites & For Construction at 17 Sites**
- **Budget Request for FY04: $33,320,000**

US Army Corps of Engineers ®
Rock Island District

# Environmental Management Program (EMP)

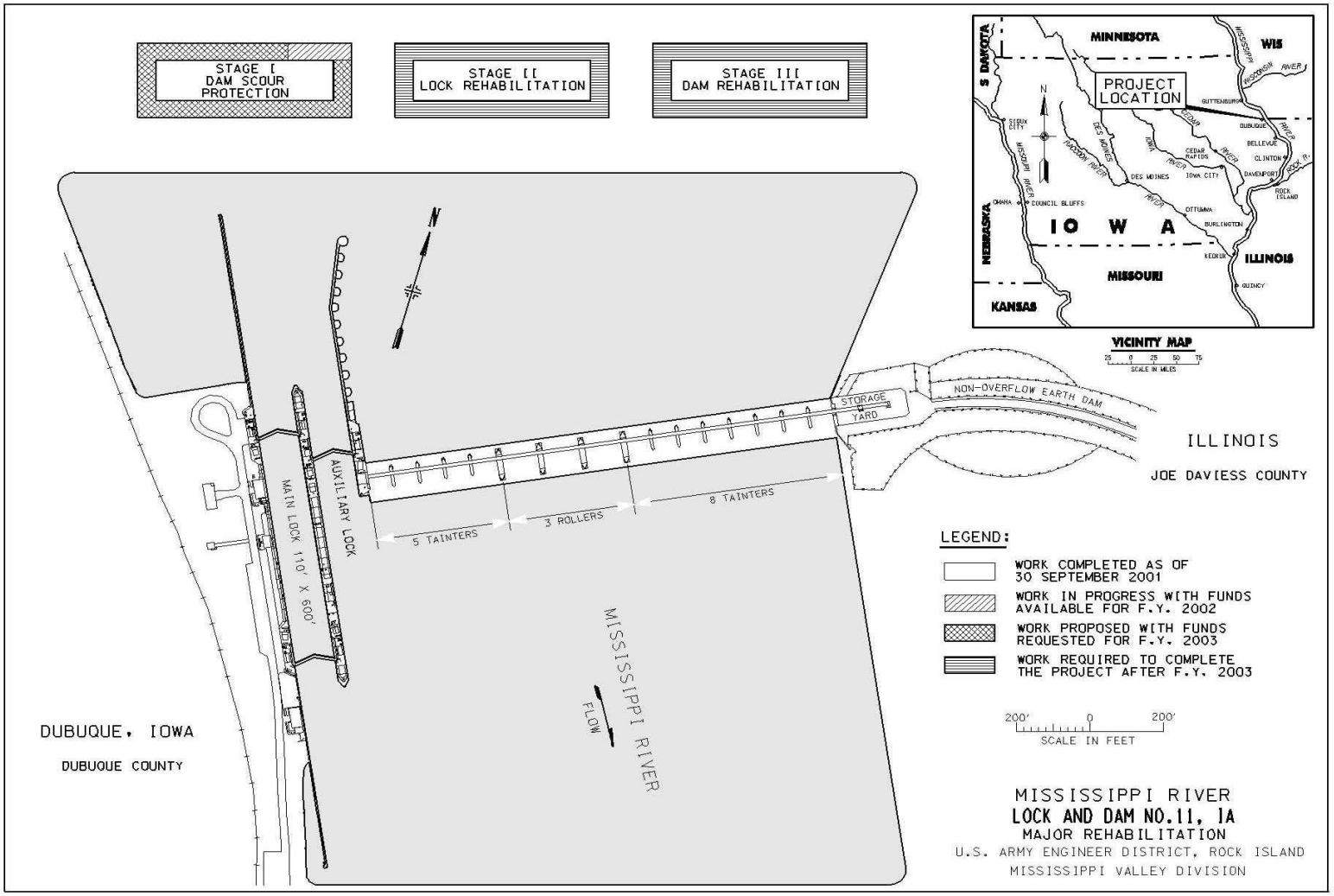
| Current Projects | Status |
| --- | --- |
| Lake Odessa | Feasibility Completion (Sept 03) |
| | Construction Start (Sched. June 04) |
| Pool 11 Stage 1 (Sunfish Lake) | Construction Completion (Nov 03) |
| Pool 11 Stage 2 (Mud Lake) | Construction Start (Sched. Aug 03) |
| Pool 12 Overwintering | Feasibility Completion (Oct 03) |
| | Construction Start (Sched. July 04) |
| Smith Creek | Feasibility Completion (Sched. 04) |

US Army Corps of Engineers ®
Rock Island District

# FY04 Environmental Management Program (EMP) ($000)

| | Budget |
|---|---|
| Rock Island District | $ 8,623* |
| St. Paul District | 7,702 |
| St. Louis District | 6,713 |
| LTRMP | 10,282 |
| Total | $33,320 |

* Rock Island HREP Includes Costs for Admin Costs, Technical Review Committee, Public Involvement, & the Report to Congress




# MISSISSIPPI RIVER
## LOCK AND DAM NO.11, IA
### MAJOR REHABILITATION

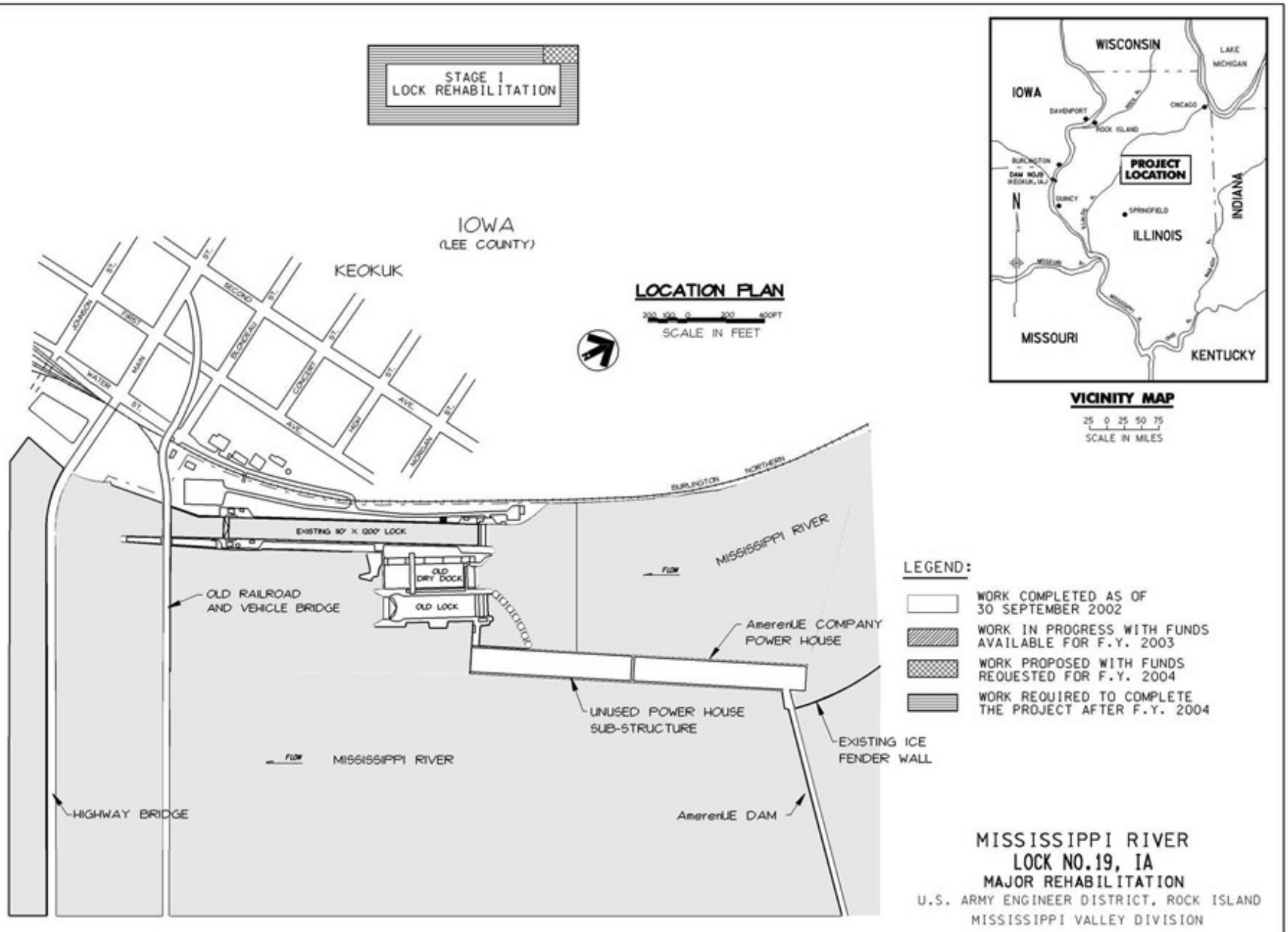
U.S. ARMY ENGINEER DISTRICT, ROCK ISLAND
MISSISSIPPI VALLEY DIVISION

US Army Corps of Engineers ®
Rock Island District

# Mississippi River Lock & Dam 11

- **Problem: Aging Infrastructure**
- **Project: Rehabilitate the Lock & Dam**

- **FY 2004 Work: Continue Stage 2 ( Lock Rehabilitation) & Complete Stage 3 (Dam Rehabilitation Plans & Specifications)**
- **Construction Budget Request for FY04: $1,313,000**
- **Estimated Cost: $25,000,000**
- **Completion Date: September 2007**


STAGE I
LOCK REHABILITATION
IOWA
(LEE COUNTY)
KEOKUK
LOCATION PLAN
SCALE IN FEET
WISCONSIN
LAKE MICHIGAN
IOWA
DAVENPORT
CHICAGO
ROCK ISLAND
BURLINGTON
DAM NO.19 (KEOKUK, IA.)
PROJECT LOCATION
QUINCY
SPRINGFIELD
INDIANA
N
ILLINOIS
MISSOURI
KENTUCKY
VICINITY MAP
SCALE IN MILES
BURLINGTON NORTHERN
EXISTING 80' X 1200' LOCK
OLD DRY DOCK
OLD LOCK
MISSISSIPPI RIVER
FLOW
OLD RAILROAD AND VEHICLE BRIDGE
AmerenUE COMPANY POWER HOUSE
UNUSED POWER HOUSE SUB-STRUCTURE
EXISTING ICE FENDER WALL
HIGHWAY BRIDGE
AmerenUE DAM
LEGEND:
WORK COMPLETED AS OF 30 SEPTEMBER 2002
WORK IN PROGRESS WITH FUNDS AVAILABLE FOR F.Y. 2003
WORK PROPOSED WITH FUNDS REQUESTED FOR F.Y. 2004
WORK REQUIRED TO COMPLETE THE PROJECT AFTER F.Y. 2004
MISSISSIPPI RIVER
LOCK NO.19, IA
MAJOR REHABILITATION
U.S. ARMY ENGINEER DISTRICT, ROCK ISLAND
MISSISSIPPI VALLEY DIVISION

US Army Corps of Engineers ®
Rock Island District

# Mississippi River Lock & Dam 19

- **Problem: Aging Infrastructure**
- **Project: Rehabilitate the Lock**

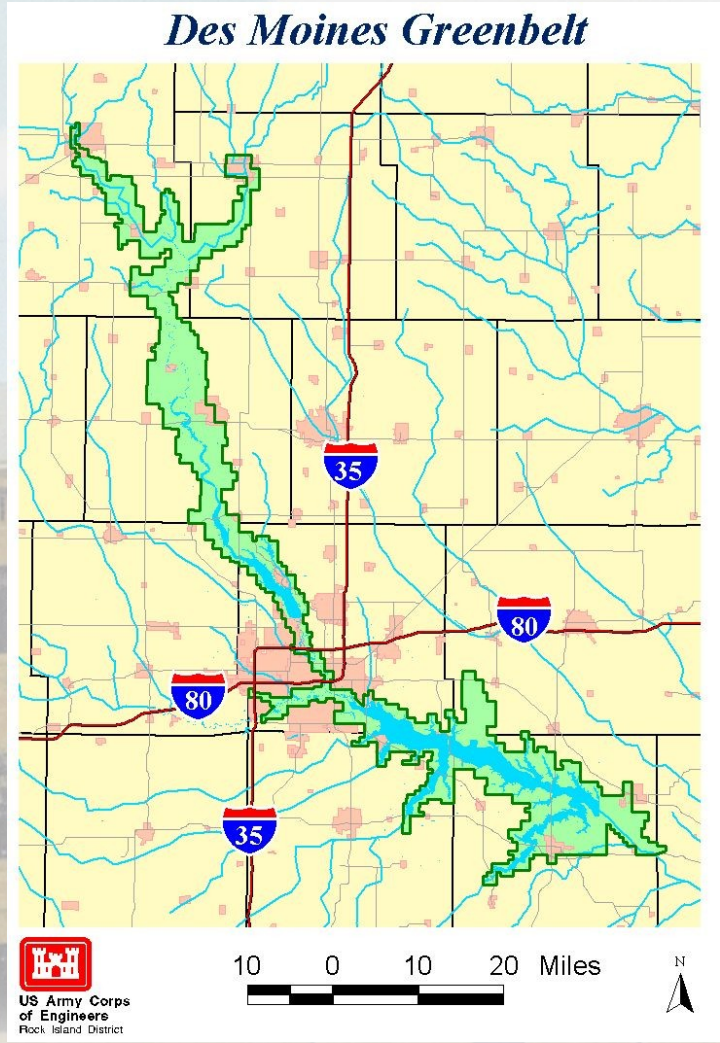
- **FY04 Work: Funding Could Be Used to Initiate Construction of the Lock Rehabilitation**
- **Budget Request for FY04: $0**
- **Total Estimated Cost: $23,365,000**
- **Completion Date: September 2007**

US Army Corps of Engineers ®
Rock Island District

# Des Moines Recreational River & Greenbelt

**Location: A 200-Mile Corridor On & Along the Des Moines River From Fort Dodge & Webster City Downstream to Just Below Lake Red Rock**

**Purpose: Development, Operation, & Maintenance of Facilities for Recreation, Bank Protection, & Environmental Restoration**

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Rock Island District

# Des Moines Recreational River & Greenbelt *(continued)*

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Rock Island District

# Des Moines Recreational River & Greenbelt *(continued)*

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US Army Corps of Engineers ®
Rock Island District

# Des Moines Recreational River & Greenbelt

- **Problem: Need for Development, Operation, & Maintenance of Facilities for Recreation, Bank Protection, & Environmental Restoration**
- **Project: Create Projects for Recreation, Bank Protection, & Environmental Restoration Purposes**

- **FY04 Work: If Funded, Dollars Could Be Used to Continue Coordination with Greenbelt Advisory Committee for Design, Award and Construction of 4 Projects**
- **Budget Request for FY04: $0**
- **Total Estimated Cost: $56,700,000 ($39,067,000 Fed)**

US Army Corps of Engineers ®
Rock Island District

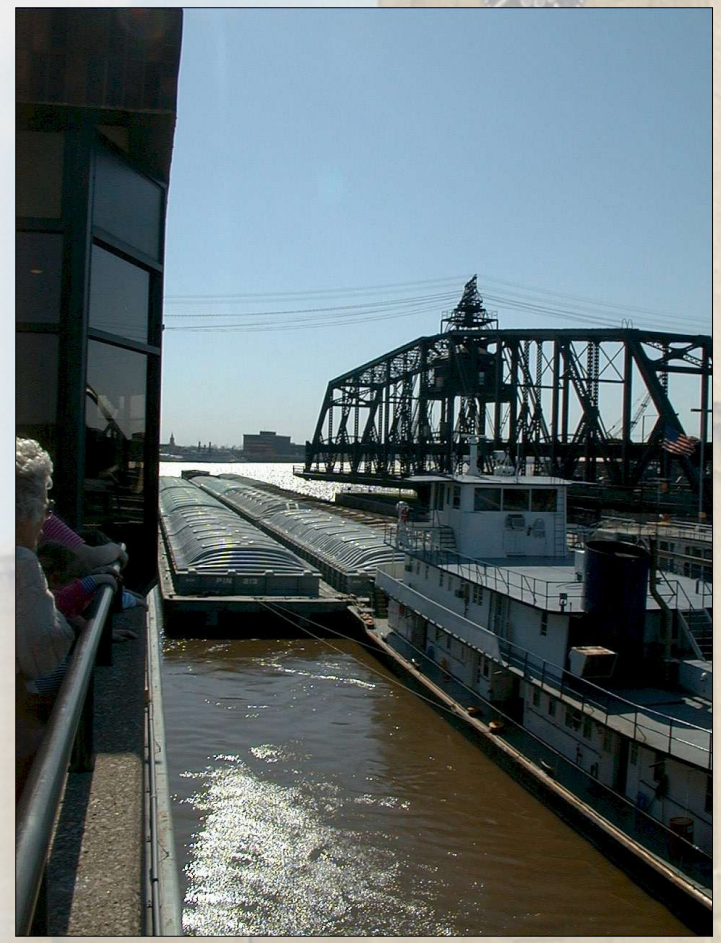
# Operations & Maintenance in Iowa FY2004 ($000)

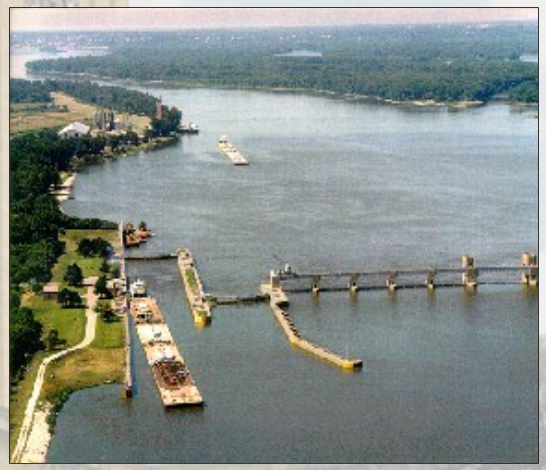
| | |
|---|---|
| • Mississippi River | $44,429 |
| • Saylorville Lake | 4,223 |
| • Lake Red Rock | 3,663 |
| • Coralville Lake | 3,037 |
| • Inspect. Compl. Works | 255 |
| TOTAL | $55,607 |

# Operations & Maintenance

US Army Corps of Engineers ®
Rock Island District

# FY2004 Mississippi River Project ($000)





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US Army Corps of Engineers ®
Rock Island District

# Saylorville Lake

- **FY 04 = $4,223,000**
- **19 Recreation Areas**
  **6.9 M Visitor Hours**
- **$175M Flood Damages Prevented**

US Army Corps of Engineers ®
Rock Island District

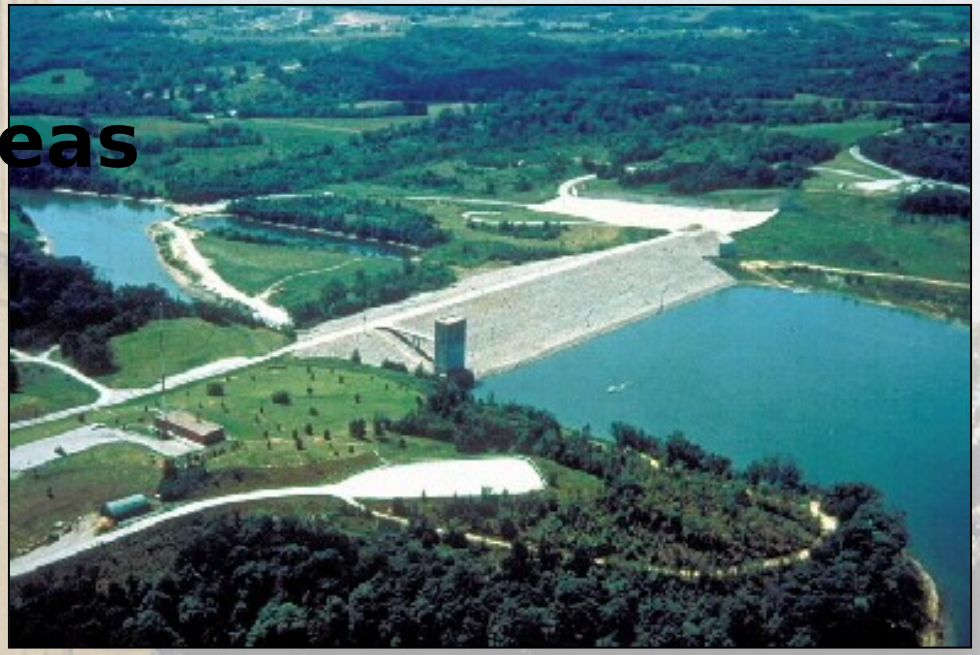
# Lake Red Rock

- **FY 04 = $3,663,000**
- **10 Recreati**
  **Areas**
  **5.2 M Visito**
  **Hours**
- **$469 M Floc**
  **Damages**
  **Prevented**

US Army Corps of Engineers ®
Rock Island District

# Coralville Lake

- **FY 04 = $3,037,000**
- **14 Recreation Areas**
  **11.1 M Visitor Hours**
- **$58 M Flood Damages Prevented**



US Army Corps of Engineers ®
Rock Island District

# Operations & Maintenance FY 2004 Challenges

- **Backlog of Maintenance**
  - ➢**Lack of Funding**
- **Dredged Material Placement**
  - ➢**Lack of Funding**

US Army Corps of Engineers ®
Rock Island District

# Regulatory Program

## Average Annual Permit Actions in the Rock Island District 1992 – 2002

**Individual Permits** 137

**Permit Denials** 6

**Letters of Permission** 32

**Regional Permits** 39

**Nationwide Permit Verifications** 1,179

**No Permit Required Determinations** 298

US Army Corps of Engineers ®
Rock Island District

# Ongoing Regulatory Coordination Efforts

- **Ongoing Use of Joint Application**
- **Joint Public Notice Procedures with Iowa DNR**

US Army Corps of Engineers ®
Rock Island District

# Total Budget FY2004 ($000)

| | |
|---|---|
| General Investigations* | $ 7,479 |
| Construction, General** | 51,317 |
| Operations & Maintenance | 81,291 |
| Total | $140,087 |

*Includes Miscellaneous GI Items
**Includes Inland Waterways Trust Fund, Total EMP (3 Districts), and CAP (According to Database)

US Army Corps of Engineers ®
Rock Island District

# Points of Contact

- **Construction**
  **Dan Holmes, Chief**
  **309-794-5480**

- **Contracting**
  **Rhonda Johanson,**
  **Acting Chief**
  **309-794-5488**

- **Engineering**
  **Jo Raoul, Chief**
  **309-794-5226**

- **Operations**
  **Kenn Shoemaker, Chief**
  **309-794-5501**

- **Planning, Programs & Project Management**
  **Gary Loss, Chief**
  **309-794-5260**

- **Regulatory**
  **Steve VanderHorn, Chi**
  **309-794-5370**

**Rock Island District Website: www.mvr.usace.arm**

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# U.S. Army Corps of Engineers Programs in Iowa